

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended) An electrical device comprising:

a housing formed of heat conductive material;

an electrical apparatus positioned within said housing, said housing partially enclosing said electrical apparatus; and

a flexible printed circuit board attached directly to at least a portion of the an exterior surface of said housing, said board having a circuit printed thereon, and further having at least one heat-generating electrical component mounted on the an outside surface of said board thereof,

whereby heat generated upon operation of said electrical component is transferred to said housing and dissipated therefrom into the surroundings.

Claim 2 (original) An electrical device in accordance with claim 1 in which said housing has a plurality of exterior surfaces and in which said flexible circuit board is adhered to at least some of said plurality of exterior surfaces.

Claim 3 (original) An electrical device in accordance with claim 1 in which said electrical apparatus is an electro-mechanical device.

Claim 4 (original) An electrical device in accordance with claim 3 in which said printed circuit and said at least one electrical component comprise a control system for said electro-mechanical device.

Claim 5 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a circuit breaker.

Claim 6 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a motor.

Claim 7 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a relay.

Claim 8 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a rheostat.

Claim 9 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a solenoid.

Claim 10 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is an actuator.

Claim 11 (original) An electrical device in accordance with claim 3 in which said electro-mechanical device is a position sensor.

Claim 12 (original) An electrical device in accordance with claim 3 in which said printed circuit and said at least one electrical component comprises a system for receiving and processing signals from said electro-mechanical device.

Claim 13 (original) An electrical device in accordance with claim 12, in which said partial circuit and said at least one electrical component further comprise a system for sending a control signal to said electro-mechanical device in response to a signal received from said electro-mechanical device.

Claim 14 (original) An electrical device in accordance with claim 12, in which said printed circuit and said at least one electrical component further comprise means for transmitting processed signals to a location outside said electrical device.

Claim 15 (currently amended) A method for constructing an electrical device comprising:

providing a housing formed of heat conductive material;

providing an electrical apparatus within said housing, said housing partially enclosing said electrical apparatus; and

attaching a flexible printed circuit board directly to at least a portion of the an exterior surface of said housing, said board having a circuit printed thereon, and further having at least one heat-generating electrical component mounted on ~~the~~ an outside surface of said board thereof,

whereby heat generated upon operation of said electrical component is transferred to said housing and dissipated therefrom into the surroundings.

Claim 16 (original) A method in accordance with claim 15 in which said housing has a plurality of exterior surfaces and further comprising adhering said flexible circuit board to at least some of said plurality of exterior surfaces.

Claim 17 (currently amended) An electrical device comprising:

a housing formed of heat conductive material;

an electro-mechanical device positioned within said housing, said housing partially enclosing said electro-mechanical device, said electro-mechanical device including one of a motor, a relay, a rheostat, a solenoid, an actuator, and a position sensor; and

a flexible printed circuit board directly attached to at least a portion of the an exterior surface of said housing, said board having a circuit printed thereon, and further having at least one heat-generating electrical component mounted on ~~the~~ an outside surface of said board thereof,

whereby heat generated upon operation of said electrical component is transferred to said housing and dissipated therefrom into the surroundings.

Claim 18 (previously presented) An electrical device in accordance with claim 17 in which said printed circuit and said at least one electrical component comprises a system for receiving and processing signals from said electro-mechanical device.

Claim 19 (previously presented) An electrical device in accordance with claim 18, in which said partial circuit and said at least one electrical component further comprise a system for sending a control signal to said electro-mechanical device in response to a signal received from said electro-mechanical device.

Claim 20 (previously presented) An electrical device in accordance with claim 18, in which said printed circuit and said at least one electrical component further comprise means for transmitting processed signals to a location outside said electrical device.